

# Safety Data Sheet

MO CLEAN

SDS Revision Date:

12/12/2022



## 1. Identification

### 1.1. Product identifier

**Product Identity**

MO CLEAN

**Alternate Names**

55-041, Blended Formula, Mo Clean Traction Motor Cleaner- 55 gallon

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

It is used to clean traction motors, mechanical parts, tools, and equipment.

**Application Method**

Read all precautions and instructions carefully before and after use.

### 1.3. Details of the supplier of the safety data sheet

**Company Name**

ComStar International Inc.  
20-47 128th Street,  
College Point, NY 11356

**Telephone No.**

718-445-7900  
800-328-0142  
Fax: 718-353-5998

**Emergency 24 HR response No:** 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure, or accident. Please direct all other inquiries to our customer service phone number.

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Combustible Liquid. 4; H227 Flammable Liquid

Serious eye damage/eye irritation. 2A; H319      Serious eye damage/eye irritation

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Warning**

#### **[Hazard Statement]:**

H227 Combustible Liquid

H319 Serious eye damage/eye irritation

#### **[Prevention]:**

Keep away from flames and hot surfaces. - No smoking.

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Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: get medical advice/attention.

In case of fire: Use water fog, dry chemical, CO<sub>2</sub>, or 'alcohol' foam for extinction.

**[Response]:**

P312: Call a poison center or doctor / physician if you feel unwell.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**[Storage]:**

Store in a well-ventilated place. Keep cool.

**[Disposal]:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

Other hazards which do not result in classification:

May cause skin and respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
BUTYL CARBITOL CAS#: 112-34-5	>15	Eye Irrit. 2B	
SURFACTANT PACKAGE CAS#: 94441-92-6 & 9016-45-9	<15	Not Classified	
DEFOAMER CAS#: Not Est	<5	Not Classified	
SODIUM BICARBONATE CAS#: 144-55-8	>10	Not Classified	
WATER & OTHER NON-HAZARDOUS COMPOUNDS CAS#: N/A	Balance	Not Classified	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

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## 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
<b>Eyes</b>	Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
<b>Skin</b>	Immediately flush with plenty of water, while removing contaminated clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
<b>Ingestion</b>	Call a physician or poison control center immediately. Induce vomiting only under the direct supervision of qualified medical personnel or a poison control center. Never give anything by mouth to an unconscious person.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause slight or mild, transient irritation. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea, or narcotic effects.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically

## 5. Fire-fighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Burning produces obnoxious and toxic fumes. Combustible liquid and vapor. Vapors are heavier than air and will settle and collect in low areas and pits, displacing breathing air.

Flammability classification (OSHA 29 CFR 1910.106)

Flammable Liquid - Category 4

#### Hazardous combustion products

Carbon oxides, formaldehyde and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

##### Protective equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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## 5.3. Special fire-fighting procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, exposure controls and personal protection, for additional information on acceptable personal protective equipment.

### 6.2. Environmental precautions

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

### 6.4. Special spill response procedures

In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455. US CERCLA Reportable quantity (RQ): None.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Wear protective gloves and eye/face protection. Keep away from heat and open flames. - No smoking. Use with adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling. Keep away from acids and other incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

### 7.2. Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

### 7.3. Incompatible materials

Strong oxidizing agents; Strong acids Strong bases; calcium hypochlorite: Perchloric acid.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

CAS No.	Ingredient	Source	Value
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112-34-5	BUTYL CARBITOL	OSHA	100 ppm
		ACGIH	100 ppm
		NIOSH	TWA 100 ppm (600 mg/m <sup>3</sup> ) ST 150 ppm (900 mg/m <sup>3</sup> ) [skin]
		Supplier	No Established Limit
94441-92-6 & 9016-45-9	SURFACTANT PACKAGE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
Not Est	DEFOAMER	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
144558	SODIUM BICARBONATE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
N/A	WATER & OTHER NON-HAZARDOUS COMPOUNDS	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

## Carcinogen Data

CAS No.	Ingredient	Source	Value
112-34-5	BUTYL CARBITOL	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
94441-92-6 & 9016-45-9	SURFACTANT PACKAGE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Not Est	DEFOAMER	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
144558	SODIUM BICARBONATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
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N/A	WATER & OTHER NON-HAZARDOUS COMPOUNDS	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

## 8.2. Exposure controls

- Respiratory** Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02
- Eyes** Chemical goggles are recommended when there is a potential for splashing.
- Skin /face protection** Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.
- Engineering Controls** Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local exhaust if mist or spray is generated.
- Other Work Practices** Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.
- General hygiene considerations** Do not breathe mist or vapor. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Ether like odor
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	-68.1°C(-90.58°F)
<b>Initial boiling point and boiling range</b>	230.4°C (446.72°F)
<b>Flash Point</b>	78°C (172.4°F)
Flashpoint (Method)	closed cup
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> 135°C(275°F): NA

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<b>Vapor pressure (Pa)</b>	<b>Upper Explosive Limit:</b> 199°C(390°F): NA 0.003 kPa
<b>Vapor Density</b>	5.58
<b>Specific Gravity</b>	0.95
<b>Solubility in Water</b>	Complete, Soluble in most organic solvents
<b>Partition coefficient n-octanol/water (Log Kow)</b>	1
<b>Auto-ignition temperature</b>	204°C (399.2°F)
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	25°C/77°F: NA
<b>Volatiles (% by weight)</b>	NA
<b>Octanol/Water Partition Coefficient</b>	NA
<b>9.2. Other physical/chemical comments</b>	
Molecular formula: C8-H18-O3	
Molecular Weight: 162.23 g/mol	

## 10. Stability and reactivity

### 10.1. Reactivity

Not normally reactive.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Avoid excessive heat, sparks, and open flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents; Strong acids Strong bases; calcium hypochlorite; Perchloric acid. .

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## 11. Toxicological information

### Information on likely routes of exposure:

**Routes of entry inhalation:** Yes

**Routes of entry skin & eye:** Yes

**Routes of entry Ingestion:** Yes

**Routes of exposure skin absorption:** Yes

**Potential Health Effects:**

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## Signs and symptoms of short-term (acute) exposure

### Sign and symptoms Inhalation

If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.

### Sign and symptoms ingestion

Ingestion can cause gastrointestinal irritation, nausea, and diarrhea.

### Sign and symptoms skin

Direct skin contact may cause temporary redness.

### Sign and symptoms eyes

Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

## Potential Chronic Health Effects

Prolonged or repeated ingestion may cause bladder or kidney stones.

## Mutagenicity

Not expected to be mutagenic.

## Carcinogenicity

No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

## Reproductive effects & Teratogenicity

Not expected to cause reproductive effects.

## Sensitization to material

Not expected to be a skin or respiratory sensitizer.

## Specific target organ effects

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

## Medical conditions aggravated by overexposure

Pre-existing skin, eye or nervous system disorders.

## Synergistic materials

Not available.

## Toxicological data

See below for toxicological data on the substance.

Chemical name	LC50(4hr) inh, rat	LD50 (Oral, rat)	LD50 (Rabbit, dermal)
BUTYL CARBITOL	0.136 mg/L (No mortality)	6560 mg/kg	2764 mg/kg

Other important toxicological hazards: CNS depression may result from extreme exposures.

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## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

Ingredient	96 hr. LC50 fish, mg/l	NOEC / 21 day	M Factor
BUTYL CARBITOL, (112-34-5)	1300 mg/L (Bluegill sunfish)	N/Av	None.
Toxicity to Daphnia			
Ingredients	EC50 / 48h	NOEC / 21 day	M Factor
BUTYL CARBITOL (112-34-5)	>100 mg/L (Daphnia magna)	N/Av	None.

Toxicity to Algae			
Ingredients	EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
BUTYL CARBITOL (112-34-5)	> 100 mg/L/96hr (Green algae)	>100 mg/L (Green algae)	None

#### Persistence and degradability:

Readily biodegradable.

#### Bioaccumulation potential:

No data is available on the product itself

Ingredients	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
BUTYL CARBITOL (112-34-5)	1	1.4

**Mobility in soil:** No data is available on the product itself.

#### Other Adverse Environmental effects:

No data is available on the product itself

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Handling for Disposal:** Handle waste according to recommendations in Section 7.

**Methods of Disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the

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proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies

## 14. Transport information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Applicable	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>	No further information		

Special precautions for user: Keep away from flames and hot surfaces. - No smoking.

Environmental hazards: See ECOLOGICAL INFORMATION, Section 12: Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

## 15. Regulatory information

### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical Toxic Chemical de minimus Concentration
BUTYL CARBITOL (112-34-5)	Yes	N/Ap	N/Ap	No N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

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Ingredients:

CAS # 112-34-5

California Proposition 65

Listed- No

Type of Toxicity: N/Ap

State "Right to Know" Lists

CA No

MA No

MN No

NJ No

PA No

RI No

## Canadian Information:

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL

## International Information:

Components listed below are present on the following International Inventory list

Ingredients	CAS #	European EINE Cs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	China IECSC
BUTYL CARBITOL	112-34-5	203-961-6	Present	Present	(7)-97; (2)- 422	KE-10466	Present	Present

## 16. Other information

### Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations

CNS: Central Nervous System

COC: Cleveland Open Cup

CSA: Canadian Standards Association

DOT: Department of Transportation

EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System

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HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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